## Patent claims

- 1. A process of applying a liquid to a finely milled solid, in which the liquid to be applied to a solid that is to be finely milled is introduced into the milling zone of a fine milling device during the milling operation or simultaneously with the introduction of the solid to be finely milled, and the fine milling is carried out in the presence of the finely divided liquid.
- 2. A process according to claim 1, in which there is used a fine milling device in which the material for milling is moved by a gas stream flowing through the milling zone.
- 3. A process according to either claim 1 or claim 2, in which a gas-jet or fluidised-bed counter-jet mill is used.
- 4. A process according to either claim 1 or claim 2, in which an impact mill is used.
- 5. A process according to either claim 1 or claim 2, in which a hammer mill is used.
- 6. A process according to any one of claims 1 to 5, in which a ready-formulated active ingredient mixture is used as the solid to be finely milled and charged with a liquid.
- 7. A process according to any one of claims 1 to 6, in which a ready-formulated pesticide or a crop protection product is used as the material for milling.
- 8. A process according to any one of claims 1 to 7, in which the particle size of the solid to be finely milled is in the range of from 40  $\mu$ m to 200  $\mu$ m.
- 9. A process according to any one of claims 1 to 8, in which the particle size of the solid to be finely milled is in the range of from 80  $\mu$ m to 120  $\mu$ m.
- 10. A process according to any one of claims 1 to 9, in which the liquid to be applied to the finely milled solid is a liquid active ingredient, the solution of an active ingredient, a surface-active substance, a flavouring or an attractant.
- 11. A process according to any one of claims 1 to 10, in which the amount of liquid to be applied is in the range of from 0.01 to 10 % by weight, based on solid to be finely milled.
- 12. A device for carrying out the process according to claims 1 to 11, which device, as well as comprising means for introducing and for finely milling the material to be milled and means for discharging the product, comprises a device which enables a finely divided liquid to be metered into the milling zone during the fine milling operation or simultaneously with the introduction of the material for milling.

- 13. A device according to claim 12, through which a milling or carrier gas flows and which, as well as comprising a milling zone, a pipe for supplying the material for milling to the milling zone, a pipe for supplying the milling or carrier gas to the milling zone, a discharge pipe for the milling or carrier gas containing the finely milled solid charged with a liquid, and a separating device for separating the finely milled solid charged with a liquid from the milling or carrier gas, comprises a device which enables a finely divided liquid either to be metered into the milling zone by way of the milling or carrier gas stream or to be metered directly into the milling zone.
- 14. A device according to either claim 12 or claim 13, comprising a gas-jet mill 101, a storage container 102 for the material for milling, a feed device 103 for the material for milling, which feed device 103 is provided with a supply pipe 104 for carrier gas, a supply pipe 105 for introducing the material for milling into the gas-jet mill 101, a supply pipe 106 for the milling gas, a discharge pipe 113 for the milling gas containing the finely milled solid charged with a liquid, a device 114 for separating the finely milled solid charged with a liquid from the milling gas, a pipe 115 for removing the finely milled solid charged with a liquid, and a discharge pipe 116 for the milling gas freed of the solid, which device is provided with a storage container 109 for the liquid to be applied, a pipe 110 for supplying the liquid to be applied into the milling gas stream 106, a liquid pump 111, arranged in the supply pipe 110, for metering the liquid either into the milling gas stream 106 or *via* pipe 110a and a nozzle 108 into the gas-jet mill 101, and a regulating device 118, which is connected to the pump 111 and the feed device 103 *via* a control line 119, for controlling the ratio of solid to be finely milled to liquid to be applied.
- 15. A device according to claim 14, which, instead of being provided with a pipe 116 for discharging the milling gas freed of the finely milled solid, is provided with a pipe 116a for returning the milling gas freed of the solid into the supply pipe 106 and with a compressor 117 arranged in the pipe 116a.
- 16. A device according to either claim 12 or claim 13, comprising a mechanical mill 201, a storage container 202 for the material for milling, a feed device 203 for the material for milling, a supply pipe 204 for introducing the material for milling into the mechanical mill 201, a supply pipe 205 for the carrier gas, a discharge pipe 212 for the carrier gas containing the finely milled solid charged with a liquid, a device 213 for separating the finely milled solid charged with a liquid from the carrier gas, a pipe 214 for removing the finely milled solid charged with a liquid, and a discharge pipe 215 for the carrier gas freed

of the solid, which device is provided with a storage container 208 for the liquid to be applied, a supply pipe 209 for the liquid to be applied, a liquid pump 210, arranged in the supply pipe 209, for metering the liquid either into the carrier gas stream 205 or *via* pipe 209a and a nozzle 207 into the mechanical mill 201, and a regulating device 217, connected to the pump 210 and the feed device 203 *via* a control line 218, for controlling the ratio of solid to be finely milled to liquid to be applied thereto.

- 17. A device according to claim 16, which, instead of being provided with a pipe 215 for discharging the milling gas freed of the finely milled solid, is provided with a pipe 215a for returning the milling gas freed of the solid into the supply pipe 205 and with a compressor 216 arranged in the pipe 215a.
- 18. A device according to either claim 14 or claim 16, in which the liquid container 109 or 208, the pipe 110 or 209 and the pump 111 or 210 is provided with a heating device.